



**ST JOSEPH'S INSTITUTION**  
**END OF YEAR EXAMINATION 2018**  
**(YEAR 1)**

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**GEOGRAPHY**

**28 September 2018**  
**1 hour 45 mins**  
**(0800 – 0945 hr)**

Additional Materials: Writing Paper  
Rubrics  
Topographic Map

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**READ THESE INSTRUCTIONS FIRST**

Write your class, index number and name on all the work you hand in.

Write in dark blue or black pen on both sides of the paper.

You may use a soft pencil for any diagrams.

**Do not use paper clips, glue or correction fluid.**

Section A: Answer **ALL** questions.

Section B: Answer **ALL** questions.

Section C: Answer the question.

Start **ALL Sections** on a new sheet of **Writing Paper**.

At the end of the examination, hand in **ALL Sections separately**.

The number of marks is given in brackets [ ] at the end of each question or part question.

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This document consists of **10** printed pages, including the cover page and Rubrics.

**[TURN OVER]**

## **SECTION A: (10 marks)**

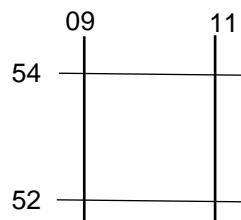
### **Topographical Map Reading**

Answer **ALL** questions.

1. Study the map extract of Rusape, Zimbabwe.

(a) State the scale of the map. [1]

(b) Identify **two** physical features located in the grid squares as shown below. [2]



(c) Identify the main economic activity found around Rusape. Give map evidence to support your answer. [2]

(d) Identify the types of roads found in grid square 0849. [2]

(e) Look at the bridge where the railway crosses the Rusape River.

(i) State the six-figure grid reference of the bridge. [1]

(ii) In which direction is Chenaka School (0047) from the bridge? [1]

(f) Study the main settlement of Rusape. Medical services like a hospital and hotel are marked on the map. Identify **one** other service or function found at the settlement. [1]

## **SECTION B: (32 marks)**

### **Data Response Questions (4 x 8 marks)**

Answer **ALL** questions.

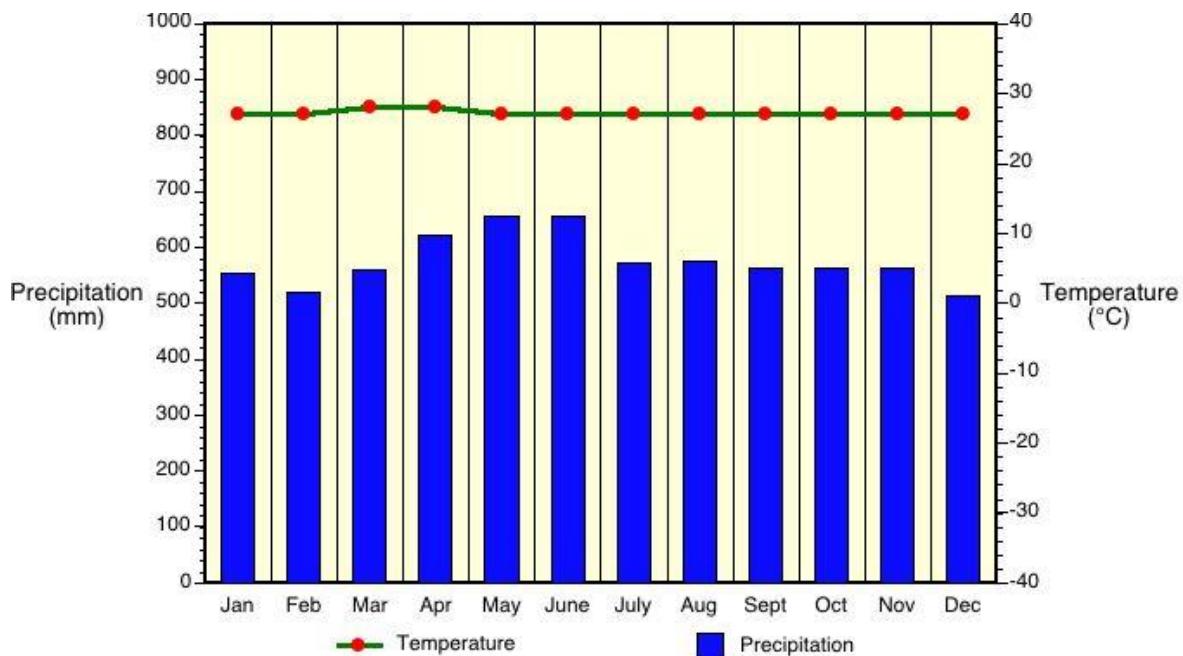
2. Figures 1A and 1B show the temperatures and precipitation of Andagoya, Colombia over a period of a year.

**Fig. 1A**

**Andagoya\*, Colombia (Latitude – 5°N, Elevation – 65 metres)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temp. (°C)	27	27	28	28	27	27	27	27	27	27	27	27
Precip (mm)	554	519	557	620	655	655	572	574	561	563	563	512

**Fig. 1B**



Source: [http://www.physicalgeography.net/fundamentals/images/andagoya\\_Af.jpg](http://www.physicalgeography.net/fundamentals/images/andagoya_Af.jpg)

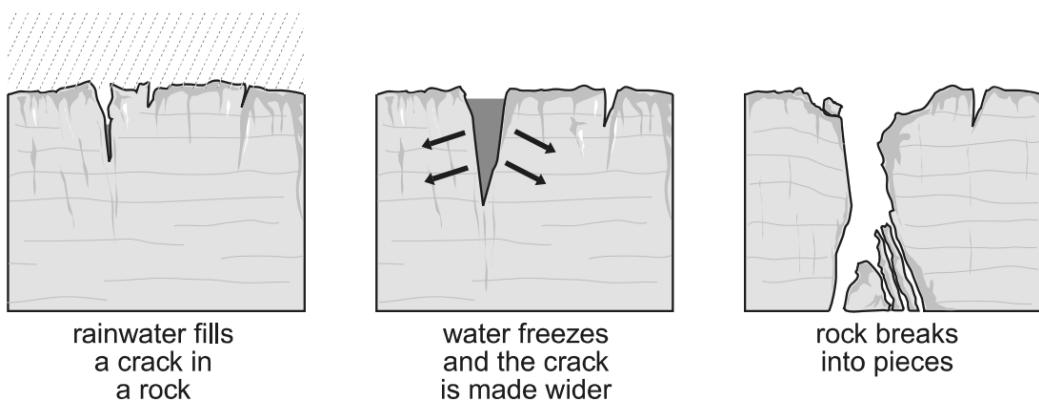
(a) (i) Describe the temperature of Andagoya, Colombia. [3]

(ii) Account for the temperature described in (a)(i). [4]

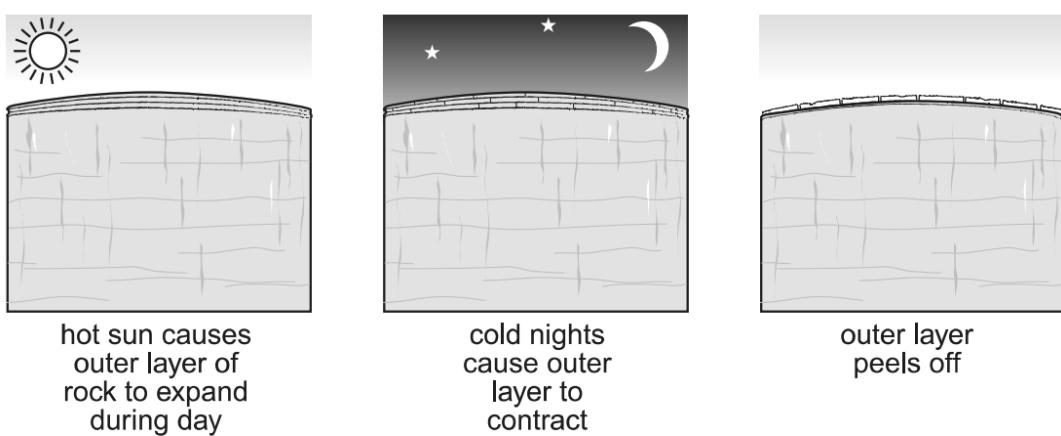
(b) Given the distribution of precipitation and the geographical location of Andagoya, Colombia, what is the most commonly occurring rain? [1]

3.(a) Figures 2A, 2B and 2C show 3 different weathering processes.

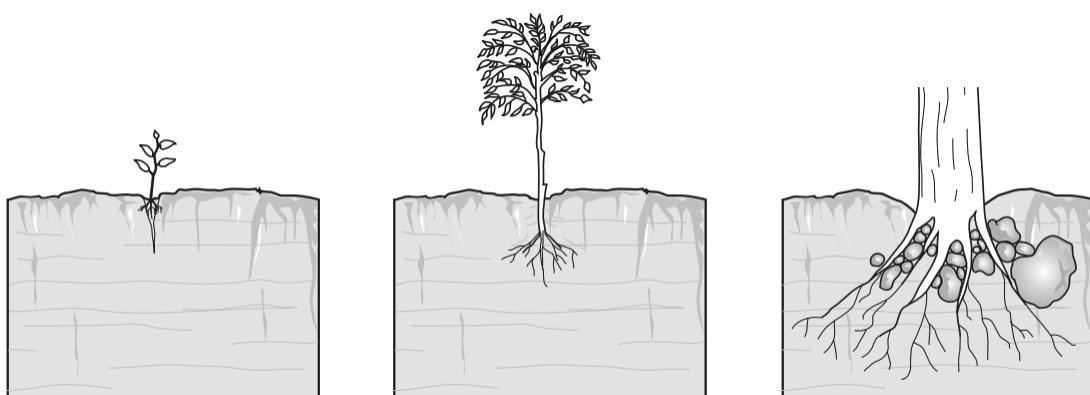
**Fig. 2A**  
**FREEZE-THAW ACTION**



**Fig. 2B**  
**EXPANSION AND CONTRACTION**



**Fig. 2C**  
**GROWTH OF ROOTS**



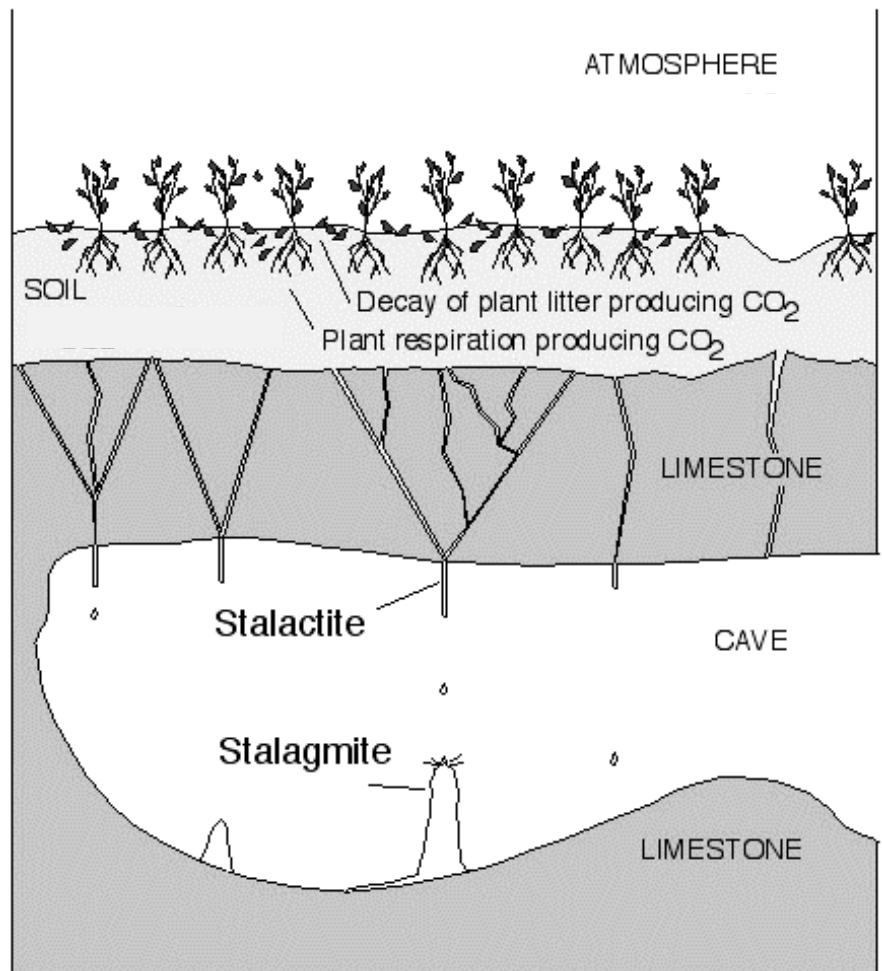
Source: May/June 2009 IGCSE Geography Exam

(i) What is 'weathering'? [1]

(ii) Which weathering process is most likely to occur in [2]  
 A: Tropical deserts  
 B: Tropical rainforests?

(b) Figure 3 shows a limestone cave.

**Fig. 3**



Source: <http://www.gly.uga.edu/railsback/1121KarstSpeleoPtn.jpeg>

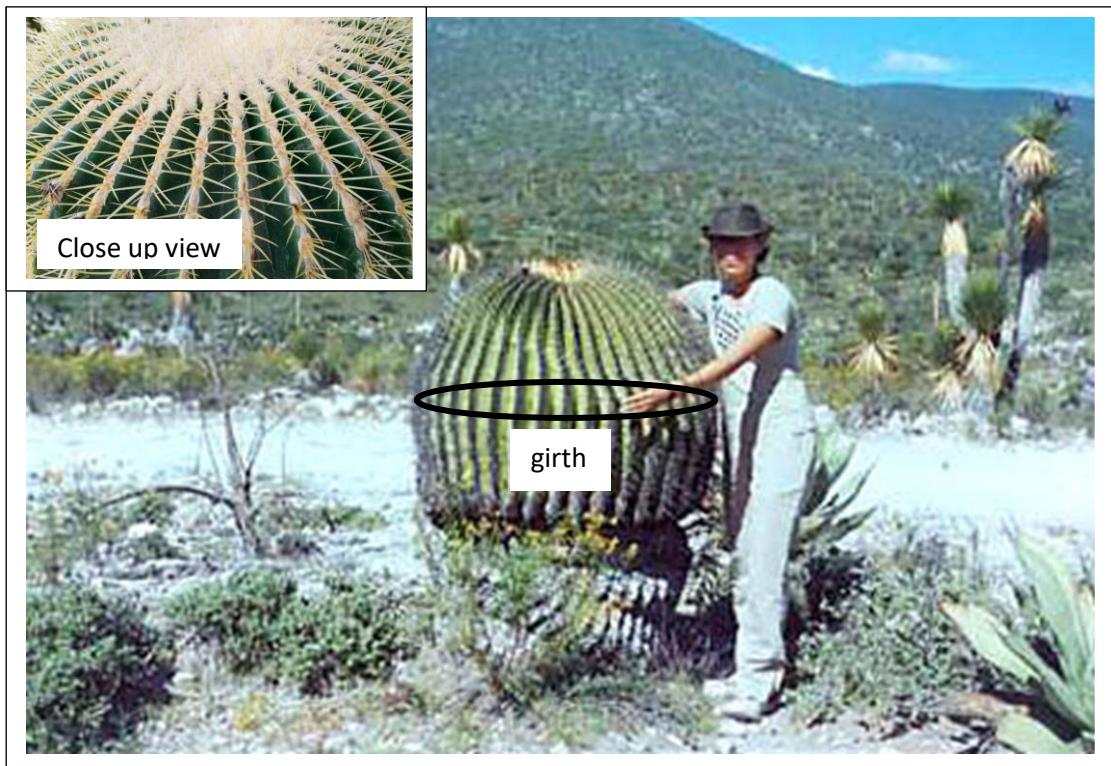
(i) What type of rock is limestone categorised as? [1]

(ii) State the type of weathering process that caused the formation of stalactite and stalagmite. [1]

(iii) Explain how stalactite and stalagmite are formed. [3]

4. Figures 4A and 4B show two different types of natural vegetation.

**Fig. 4A**



Source: <http://www.mexicolore.co.uk>, Inset close up: <http://www.picdrome.com>

**Fig. 4B**



Source: <https://florafaunaweb.nparks.gov.sg>

(a) Identify the types of climatic environment where you can find the plant species in Figures 4A and 4B. (Label your answer with the figure number.) [2]

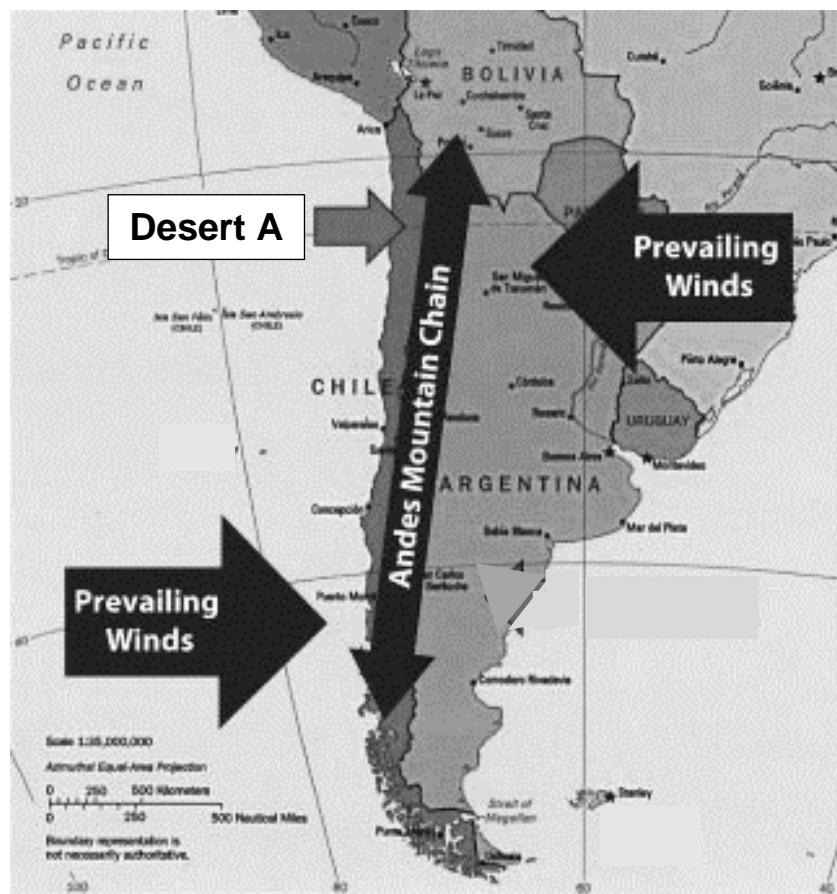
(b) List **two** **physical** differences between the plant species in Figures 4A and 4B. [2]

(c) (i) Describe the climatic conditions in which plant species in Figure 4A is found and explain why the plant species in Figure 4A looks the way it does. [2]

(ii) Describe the climatic conditions in which plant species in Figure 4B is found and explain why the plant species in Figure 4B looks the way it does. [2]

5.(a) Figure 5 shows the geographical locations of two deserts.

**Fig. 5**



Source: <https://www.pmfias.com/desert-climate-hot-desert-climate-mid-latitude-desert-climate/>

- (i) Identify Desert A. [1]
- (ii) With the use of a well-labelled diagram, explain how Desert A is formed. [4]

(b) Figure 6 shows a physical feature in a desert.

**Fig. 6**



Source: <https://science.howstuffworks.com/environmental/earth/geology/>

Describe how wind would have shaped the physical feature.

[3]

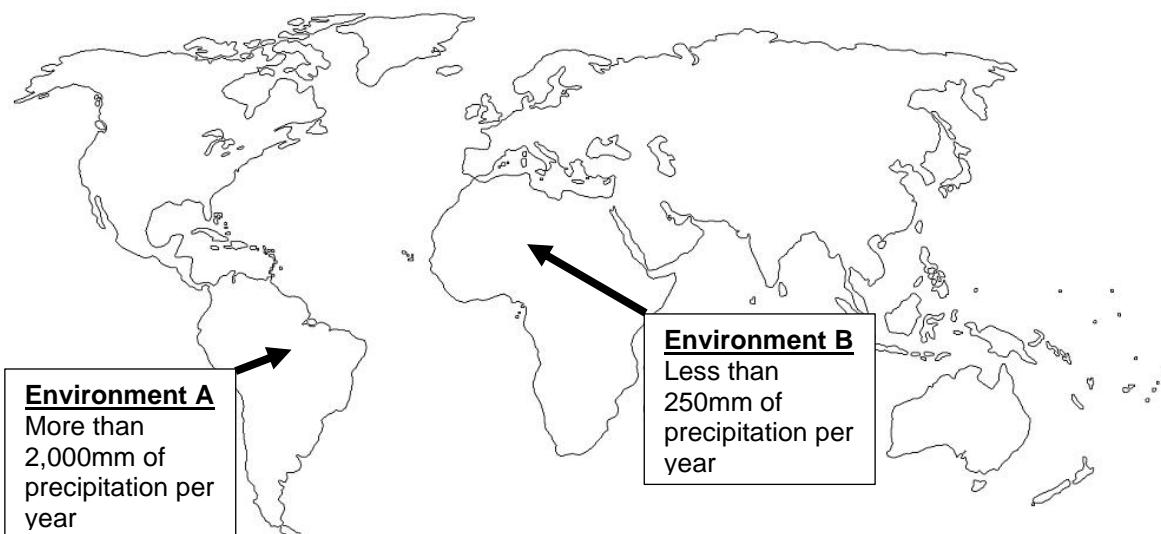
## **Section C: (8 marks)**

### **Open-Response Question**

Answer the question on the **Writing Paper** provided.

6. Figure 7 shows the total annual precipitation of two environments.

**Fig. 7**



Source: <http://eduteach.co/wp-content/uploads/2018/06/world-map-black-an-white-luxury-world-map-black-and-white-image-picture-of-world-map-in-black-and-of-world-map-black-an-white.jpg>

With reference to Figure 7, explain how the spatial locations of the two environments impact the total annual precipitation received. [8]

### **Level of Response Rubrics for Open-Response Question**

	AO1 Knowledge/ Understanding	AO2 Application/Analysis	AO3 Expression
Level 1	No or little relevant knowledge and/or understanding, which is largely superficial or of marginal relevance; inappropriate case studies	Little attempt at application/analysis	Poor terminology, difficult to understand
Level 2	Relevant knowledge and understanding but with some omissions, case studies and examples well chosen	Some attempt at application; competent answer although not well-developed and tends to be descriptive	Acceptable terminology Some forms of organisation Can follow argument
Level 3	Accurate, specific and well detailed knowledge and good understanding; examples and case studies are well chosen and developed	Detailed application; well-developed answer that cover most or all aspects of question	Geographical terminology used appropriately Organised responses